

(19) World Intellectual Property
Organization
International Bureau



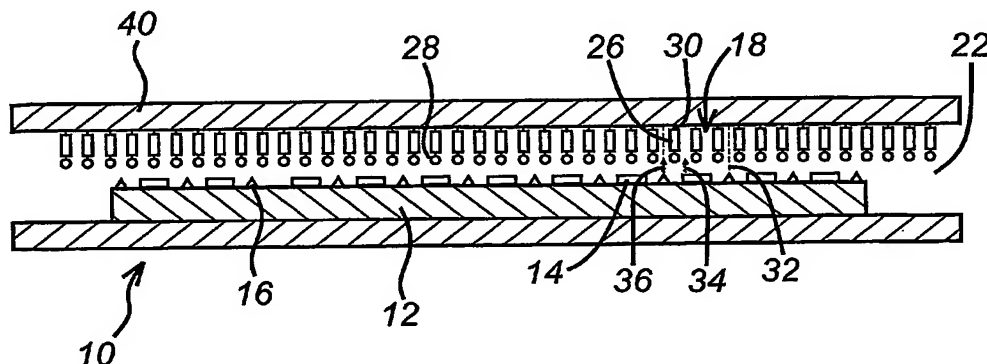
(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/037425 A1

- (51) International Patent Classification⁷: **B01J 19/00**, (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: PCT/GB2004/004390
- (22) International Filing Date: 15 October 2004 (15.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0324154.4 15 October 2003 (15.10.2003) GB
0417695.4 9 August 2004 (09.08.2004) GB
- (71) Applicant (*for all designated States except US*): **OXFORD GENE TECHNOLOGY IP LIMITED** [GB/GB]; Begbroke Business & Science Park, Hirsch Building, Sandy Lane, Yarnton, Oxford OX5 1PF (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **EGELAND, Ryan, D.** [US/GB]; Oxford Gene Technology IP Limited, Begbroke Business & Science Park, Hirsch Building, Sandy Lane, Yarnton, Oxford OX5 1PF (GB).
- (74) Agents: **MARSHALL, Cameron, John et al.**; Carpmals & Ransford, 43-45 Bloomsbury Square, London WC1A 2RA (GB).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: ELECTROCHEMICAL TREATMENT OF SUBSTRATES



(57) Abstract: A method of electrochemically treating a substrate is provided comprising the steps of: (a) providing an electrolyte in contact with the substrate; (b) providing a device which faces the substrate and is in contact with the electrolyte, the device having: (i) a common first electrode arranged to define cells therein; and (ii) a plurality of individually addressable second electrodes, wherein a plurality of the cells contain individually addressable second electrodes; and (c) altering the potential of at least one of the second electrodes relative to the common first electrode so that: (i) the common first electrode generates a first redox product; and (ii) the at least one of the second electrodes generate a second redox product which is able to modify a region of the substrate facing the at least one electrodes, wherein the electrolyte is such that the second redox product is quenchable by the first redox product.